

CLAIMS

1. Conveying wire with disc-shaped conveying members for use in endless tube conveyor systems, the wire consisting of a number of twisted strands that each are made of thin threads or fibres, and including an outer jacket to which the said conveying members are fastened directly by injection moulding, **characterised in that** the said outer jacket consists of a polymer with a melting temperature which is lower than the melting temperature of the plastic material from which the conveying members are injection moulded.
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2. Conveying wire according to claim 1, **characterised in that** the said conveying members consists of synthetic material with a melting temperature which is 10 - 40°C higher than the melting temperature of the outer jacket which consists of a polymer.
- 15 3. Conveying wire according to claim 1 - 2, **characterised in that** the said conveying members consist of polyamide (nylon) with a melting temperature which is 20 - 30°C higher than the melting temperature of the outer jacket which consists of polyurethane.
- 20 4. Conveying wire according to claim 1, **characterised in that** the wire is made as a balanced (torsionally neutral) wire consisting of at least three strands that each are made of very thin synthetic fibres which are individually surface treated with a polymer, providing great bending wearability to the fibres and good adhesion to the outer jacket which consists of a polymer.
- 25 5. Conveying wire according to claim 1 and 4, **characterised in that** the wire is made as a balanced (torsionally neutral) wire consisting of at least seven strands that each are made of very thin paraamide fibres which are individually surface treated with a polymer providing great bending wearability to the fibres and good adhesion to the outer jacket which consists of a polyurethane.
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6. Conveying wire according to claim 1, **characterised in that** the wire is made with strands with lays having a length of the magnitude 50 - 150 mm, preferably about 100

mm, so that elongation of the wire is minimised.

7. Conveying wire according to claim 1, **characterised in that** the wire is made as a balanced (torsionally neutral) wire consisting of a number of strands that each are
5 made of thin threads of steel, where the wire under heating by extrusion has been provided with the said outer jacket consisting of polyurethane and which thereby has been integrated with the wire.